

19980922.qrp v01\_n222.qrs.980922

Date: Tue, 22 Sep 1998 19:03:13 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 1222

QRP-L Digest 1222

Topics covered in this issue include:

- 1) [20645] VERTI-GO  
by ARDUJENSKI@aol.com
- 2) [20646] CQC Summer QSO Party Logs  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 3) [20647] St. Louis Express Antenna  
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 4) [20648] Ten Tec items FS  
by "Larry Laffoon" <w3rl@email.msn.com>
- 5) [20649] ZM-2 tuner schematic on the web  
by George Zafiropoulos <georgez@quickturn.com>
- 6) [20650] Galapagos Islands on 15m + 3W  
by w4pj@w4bkx.ampr.org
- 7) [20651] Re: How do you cut copper clad PC board?  
by Tim Ahrens <tahrens@inetport.com>
- 8) [20652] RE: Solar contamination  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 9) [20653] the 'P' on 7039.5 khz  
by Fran Flynn <fflynn@together.net>
- 10) [20654] Re: the 'P' on 7039.5 khz  
by mikemo@ibm.net
- 11) [20655] Attn:WB4EXW; Charger Sent.  
by we6w@juno.com (Ed Loranger)
- 12) [20656] Re: the 'P' on 7039.5 khz  
by "Ken Hanks" <KenNFD@ibm.net>
- 13) [20657] RE: Solar contamination  
by BADDBadger@aol.com
- 14) [20658] Russian beacons  
by Fran Flynn <fflynn@together.net>
- 15) [20659] LDG inside Sierra?  
by jim nestor <nestoji@home.com>
- 16) [20660] Re: Solar contamination  
by BADDBadger@aol.com
- 17) [20661] Freebie....  
by n5inz@juno.com (John M Andrews)
- 18) [20662] Re: How do you cut copper clad PC board?  
by Lee Bahr <bahr521@earthlink.net>
- 19) [20663] Re: Radio Shack DX394 closeout

- by Jess Gypin <jessqrp@concentric.net>
- 20) [20664] Teflon wire for sale / trade  
by James Skalski <jskalski@buffnet.net>
- 21) [20665] VHF Noise Bridges  
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 22) [20666] Re: LDG inside Sierra?  
by Chuck Adams <adams@ticnet.com>
- 23) [20667] QRP Afield - Bicycle rover  
by VE3JC - John C <jbcumming@wwdc.com>
- 24) [20668] Re: Am audio (overmod)  
by RABRUNER@aol.com
- 25) [20669] QRPp Article on SLX Needed  
by Gray Marshall <gray@gmfx.com>
- 26) [20670] Re: Bandwidth (was: re: AM Audio)  
by RABRUNER@aol.com
- 27) [20671] Re: suppressed carrier FM  
by RABRUNER@aol.com
- 28) [20672] Not QRP: 30 pin RAM needed  
by "Bill Todd" <bill@willapabay.org>
- 29) [20673] Re: Not QRP: 30 pin RAM needed  
by "Bill Todd" <bill@willapabay.org>
- 30) [20674] Trivia: History of Quartz Crystals  
by Peter\_Simpson@ne.3com.com
- 31) [20675] Help with HT choice  
by mikemo@ibm.net
- 32) [20676] DK3 UPDATE 22-SEP-98  
by Chris Cartwright <ccart@dns.vidtel.com>
- 33) [20677] Hello  
by Gerald\_Moritz@pskdd.psk.co.at
- 34) [20678] for trade  
by "david r" <elbc@pivot.net>
- 35) [20679] Re: LDG inside Sierra?  
by "Armin Hachmer" <armin@muskoka.com>
- 36) [20680] Re: Solar contamination  
by nhoop@centuryinter.net (N H)
- 37) [20681] QRP Web page change for KJ5VW  
by "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>
- 38) [20682] QPRTTF-PAC NW TEAM  
by ARDUJENSKI@aol.com
- 39) [20683] Re: R-X Noise Bridges  
by Charles Kadesch <chas@digizen.net>
- 40) [20684] Are U310 and J310 FETS the same part?  
by David Shalita <af389@lafn.org>
- 41) [20685] Re: Are U310 and J310 FETS the same part?  
by jeverhar@cse.l-3com.com
- 42) [20686] RE: Solar contamination  
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
- 43) [20687] New 440 Repeater on the Air in Iowa!

by Chris Cole <cjcole@ames.net>  
44) [20688] Sierra and LDG  
by jim nestor <nestoji@home.com>  
45) [20689] Re: Freebie....  
by n5inz@juno.com (John M Andrews)  
46) [20690] Re: Not QRP: 30 pin RAM needed  
by "Bill Todd" <bill@willapabay.org>  
47) [20691] 10 METER QRM  
by "DONALD G. DORN" <DDORN@swbell.net>  
48) [20692] Where do it go?  
by bcutter@teal.csn.net (Bob Cutter)  
49) [20693] Re: 10 METER QRM  
by "Steve Hurst" <shurst@magiclink.com>  
50) [20694] RE: Where do it go?  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
51) [20695] AEROGEL and Insulating Foam  
by we6w@juno.com (Ed Loranger)  
52) [20696] RE: AEROGEL and Insulating Foam  
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>  
53) [20697] RE10 :METER QRM  
by "DONALD G. DORN" <DDORN@swbell.net>  
54) [20698] Re: AEROGEL and Insulating Foam  
by Mike Manship <mjmanship@iquest.net>  
55) [20699] U310 is Metal Cased J310  
by "James R. Duffey" <ji3m@maxwell.com>  
56) [20700] OLD KEYS  
by ARDUJENSKI@aol.com  
57) [20701] Special event station N8F Nov 7 & 8  
by "Charles R. Mabbott Sr." <crmabbott@mediaone.net>  
58) [20702] PORTABLE GENERATOR  
by ARDUJENSKI@aol.com  
59) [20703] LDG Inside the Sierra  
by Jerry Henshaw <jerryh@webzone.net>  
60) [20704] Re: R-X Noise Bridges  
by "John Moriarity" <k6qq@hdo.net>  
61) [20705] Re: Need Help  
by Jim Lowman <jmlowman@ix.netcom.com>  
62) [20706] FS: TT CENTURY 21 DIGITAL \$200  
by "Bill NT1R" <wlegge1@maine.rr.com>  
63) [20707] Re: PORTABLE GENERATOR  
by Michael Maiorana <mikemo@ibm.net>  
64) [20708] Web Page Address  
by "Ron Polityka" <wb3aal@talon.net>  
65) [20709] Lightbulbs and verbosity  
by Mel Evans <MelEvansGM6JAG@compuserve.com>  
66) [20710] RE: PORTABLE GENERATOR  
by Sam Billingsley <SBillingsley@usaninc.com>  
67) [20711] Index Labs support -- QRP + (++)

by "Radman" <radman@best.com>  
68) [20712] Re: PORTABLE GENERATOR  
by "Radman" <radman@best.com>  
69) [20713] Re: Radio Shack DX394 closeout  
by heatherex@juno.com (Rex E Pickett)  
70) [20714] Re: Radio Shack DX394 closeout  
by Ryan <ryan@e-etc.com>  
71) [20715] PVC Spreaders  
by tom whalen <whalen@swcp.com>  
72) [20716] Re: PORTABLE GENERATOR  
by KB90CE@aol.com  
73) [20717] Re: Radio Shack DX394 closeout  
by BADDBadger@aol.com  
74) [20718] Re: PORTABLE GENERATOR  
by KC5TJA <kc5tja@axisinternet.com>

-----  
Date: Mon, 21 Sep 1998 19:15:28 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@Lehigh.EDU, nwq-1@scn.org  
Subject: [20645] VERTI-GO  
Message-ID: <aa8e93b7.3606de10@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Well, I need some info from you old time antenna gurus.

QUESTION 1: Given two short verticals (SLV) would hooking them up as PHASED VERTICALS be any better gain and take off angle wise than hooking them up as a half square with the horizontal wire connecting the bases vs at the top or is it pretty much a wash? Assume elevation of base 6 ft.

QUESTION 2: It appears that a BOBTAIL arrangement could be set up with three SLVs spaced 1/2 wave apart and a horizontal wire interconnecting them at the base. Since the horizontal wire is minimal radiator on the BOBTAIL the base connection should not be a factor. COMMENTS??

Thank you in advance for your input(s)...Alan KB7MBI

-----  
Date: Mon, 21 Sep 1998 17:14:31 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-1@Lehigh.EDU, cqcllist@mtechnologies.com

Subject: [20646] CQC Summer QSO Party Logs  
Message-ID: <199809212315.RAA29679@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Gang, the deadline for log submissions for the CQC Summer QSO Party (held 8/23/98) is Wednesday. That's a "postmark date" so you still have time to get your log in if you haven't done so.

You can e-mail it to cqccx@mttechnologies.com or snail-mail it to  
CQC  
PO Box 371883  
Denver CO 80237-1883

Remember, apart from the three official classes (all band, single band, and portable) you could earn a certificate for the highest score in your state.

Thanks to everyone who has sent in their log, and who participated.

73  
Marshall Emm  
N1FN/VK5FN  
n1fn@MorseX.com  
Morse Express  
"Everything for the Morse Enthusiast"  
<http://www.MorseX.com>  
(303)752-3382  
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-----  
Date: Mon, 21 Sep 1998 19:44:02 -0400  
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>, NJQRP Club <njqrp@njqrp.org>  
Subject: [20647] St. Louis Express Antenna  
Message-ID: <3606E4C2.69838AB4@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I read Dave NF0R's discussion of the St. Louis Express Antenna in QRPp with great interest. When he described the effect of folding the antenna

back on itself I was reminded of an antenna design I saw in Bill Orr's Radio Handbook on page 22-13 & 22-14 of the 23rd edition called The Twin-Lead Marconi Antenna. The design described is 300 ohm TV twin lead cut to 234/F (MHz) the far end is shorted and the whole thing is directly fed with 50 ohm coax. While this design is applied in Bill's book to 80 and 160 meter band use. I wonder how this thinking would work with shorter antennas given what Dave discovered in his SLX testing. Anybody else familiar with this and have any further thoughts??? Directly fed folded twinlead would be easy to pack on 20 and 40 for field use.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

-----  
Date: Mon, 21 Sep 1998 20:07:57 -0400  
From: "Larry Laffoon" <w3rl@email.msn.com>  
To: <QRP-L@Lehigh.EDU>  
Subject: [20648] Ten Tec items FS  
Message-ID: <001301bde5bd\$0e7266c0\$bef72299@rlaffoon>

Hello All;

I have a Ten Tec model 405 HF amp, 1 watt in and 50 watts out, for sale with manual. Amp is a 9 out of 10. Will ship to buyer for \$195.00. This is the matching amp for the QRP Argonaut 505, 509 series radio. Also have a Ten Tec model 1254 SWL receiver-works great, reason for selling - I just bought a radio with General Coverage receive. Will ship to buyer for \$175.00. Thanks for reading, Larry - w3rl@msn.com, 301-292-4945.

-----  
Date: Mon, 21 Sep 1998 17:32:30 -0700  
From: George Zafiropoulos <georgez@quickturn.com>  
To: qrp-l@Lehigh.EDU

Subject: [20649] ZM-2 tuner schematic on the web  
Message-ID: <3.0.5.32.19980921173230.00839bd0@mailhost.quickturn.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

There have been many people interested in the ZM-2 tuner from Emtech.  
Since the tuners are not available at this time, I thought at least those  
of you interested in the tuner would like to see a schematic of the beast.  
You can check it out on my web site <http://www.qsl.net/kj6vu>  
'73 de George KJ6VU

-----  
Date: Mon, 21 Sep 1998 20:54:01 EDT  
From: w4pj@w4bkk.ampr.org  
To: qrp-l@Lehigh.EDU  
Subject: [20650] Galapagos Islands on 15m + 3W  
Message-ID: <22785@w4bkk.ampr.org>

Well, easy this time... HC8N 22SEP98 0046Z 21023.8 CW 559/599  
After telling him I was only running 3 Watts, he says S-5.  
Not bad. (the benefit of having a good antenna and LOW LOSS feedline - CL-36  
at 62ft and 100ft of Belden 9913)

-----  
Not so fortunate with BT2HC on 21025... Oh Well! That's a tough one with QRO.

de Scott / W4PJ Ft. Lauderdale, FL <EL96vd> QRP-L #1585 (Pres. SFDXA)  
----- 73 -----

-----  
Date: Mon, 21 Sep 1998 20:30:48 -0500  
From: Tim Ahrens <tahrens@inetport.com>  
To: turnkey@exo.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [20651] Re: How do you cut copper clad PC board?  
Message-ID: <3606FDC8.1FC16F70@inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Bob - I use a pair of tin snips. The ones I have (oldies,  
given to me by my dad moons ago), do a fine job. Just use  
em like scissors.

CU

Tim W5FN

-----  
Date: Mon, 21 Sep 1998 20:32:11 -0500  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [20652] RE: Solar contamination  
Message-ID: <000001bde5c8\$d3ebd570\$ec3247cf@homedad.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

You can also use Hydrogen Hydroxide (HOH)  
Be careful with it!

Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU  
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Al Gritzmacher  
> Sent: Monday, September 21, 1998 3:40 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Solar contamination  
>  
>  
> Bill K5ZTY wrote:  
> <<  
> Subject: [20296] Re: Solar Powered QRP - WARNING!  
> Message-ID: <19980917.023852.12254.1.k5zty@juno.com>  
>  
> Thanks for the warning Alyn. I'm throwing my solar panel in  
> the garbage  
> right now before I am radiated any more.  
> Why didn't Mike Bryce tell me about this danger when I bought  
> the Micro M  
> controller from him?? I'm throwing it away too, it must be  
> contaminated  
> also. Hey, my OHR400 is  
> probably ruined too. Oh my God, this may be the end of all of my ham  
> gear. That panel has been setting in the same room with all of it. I'm



> calling the HAZMAT guys right now....  
>  
> Bill, K5ZTY  
> Houston,TX  
> k5zty@juno.com  
> >>  
>  
> Don't throw that good stuff away Bill. You can decontaminate  
> it easily.  
>  
> Just rinse it off in some DiHydrogen-MonOxide and the effects  
> will be reversed!  
>  
> Great stuff, that DHMO and available almost everywhere!  
>  
> 72/73  
>  
> Al AE2T  
>  
>

-----  
Date: Mon, 21 Sep 1998 21:32:28 -0400 (EDT)  
From: Fran Flynn <fflynn@together.net>  
To: qrp-l@Lehigh.EDU  
Subject: [20653] the 'P' on 7039.5 khz  
Message-ID: <199809220132.VAA00713@sequoia.together.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

The listproc does not seem to like the word "Subject", but that about states the question.

I've heard it several times, usually in the evening.

A morse code letter P sent at maybe 7 wpm repeating for an extended time, on or about 7039.5 khz. If it's an image, it's one I can hear on 2 different rigs, a Sierra and a TS-520, which makes it unlikely to be an image.

Any ideas what this is?

-Fran km1z

-----

Date: Mon, 21 Sep 1998 21:51:56 -0400  
From: mikemo@ibm.net  
To: fflynn@together.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [20654] Re: the 'P' on 7039.5 khz  
Message-ID: <360702BC.3B3A@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Fran Flynn wrote:

> I've heard it several times, usually in the evening.  
> A morse code letter P sent at maybe 7 wpm repeating for an extended time,  
> on or about 7039.5 khz.

Russian beacons. check out <http://reality.sgi.com/adams/ussr.beacons>

I can usually hear the P and C from here in florida.

72 de ku4qo, Mike Maiorana, Palm Harbor, FL

-----  
Date: Mon, 21 Sep 1998 16:16:49 EDT  
From: we6w@juno.com (Ed Loranger)  
To: qrp-1@Lehigh.EDU  
Subject: [20655] Attn:WB4EXW; Charger Sent.  
Message-ID: <19980921.131250.9311.0.we6w@juno.com>

Watson, your email didn't accept so hopefully  
you'll get this:

Good Morning Watson. I'm home sick today and just  
mustered up the energy to wrap your package. I  
am gonna drag myself to the Post Office via XYL  
driving me there. Looks like some FLU has hit me  
and I'm very tired. Probably could explain  
why I've been tired these last 12 days or so.

But having a burst of energy right now. Just  
finished running my OHR-100 rig receive off the  
charger as a last minute check, so everything  
operated as expected.

Enjoy the charger. And thanks for the gift.

--

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>  
Enjoying Ham Radio every day! Santa Rosa, CA.

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Mon, 21 Sep 1998 22:00:09 -0400  
From: "Ken Hanks" <KenNFD@ibm.net>  
To: <fflynn@together.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [20656] Re: the 'P' on 7039.5 khz  
Message-ID: <000d01bde5cc\$bf61f900\$f8686420@kh>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Fran:

That would be one of the Russian beacons on 7.039

C-Moscow, European Russia  
D\_Odessa, Ukraine  
F-Vladivostok, Asiatic Russia  
K-Khabarovsk, Asiatic Russia  
L-St. Petersburg, European Russia  
M-Magadan, Asiatic Russia  
O-Moscow European Russia  
P-Kaliningrad, European Russia  
R-Ustinov  
S-Archangel, European Russia  
U-Murmansk, European Russia  
X-Prague, Czech Republic  
yu\*-Kholmsk, Asiatic Russia

\*yu is dididahdah

This is from a posting by Chuck, K5FO on Dec 26, 1997.

73, Ken K1XS

-----  
Date: Mon, 21 Sep 1998 22:19:01 EDT  
From: BADDBadger@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [20657] RE: Solar contamination  
Message-ID: <dd0eb03a.36070915@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 9/21/98 9:34:31 PM, wb5rue@stic.net writes:

>You can also use Hydrogen Hydroxide (HOH)  
>  
>Be careful with it!  
>  
>Kevin, WB5RUE

I'll drink to that! That's Perrier (H2O), right? I call it dihydrogen (mon)oxide. Careful! I hear that its pH is almost 7.

-----  
Date: Mon, 21 Sep 1998 22:41:19 -0400 (EDT)  
From: Fran Flynn <fflynn@together.net>  
To: qrp-1@Lehigh.EDU  
Subject: [20658] Russian beacons  
Message-ID: <199809220241.WAA29556@sequoia.together.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Thanks for the \*many\* responses.

I am now quite convinced that the 'P'  
station originates somewhere in Russia, judging by the  
several emails I recieved within an hour of my sending  
out my question! Wow!

Thanks, everyone :)

-Fran KM1Z

-----  
Date: Mon, 21 Sep 1998 22:57:06 -0400  
From: jim nestor <nestoji@home.com>  
To: qrp-1@Lehigh.EDU  
Subject: [20659] LDG inside Sierra?  
Message-ID: <19980922030006.AAA26377@cc652944-a.ewndsr1.nj.home.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Somewhere I vaguely remember seeing that somebody had built an LDG QRP Autotuner inside a Wilderness Sierra. Can't remember where.

I took a quick measuremetn and it seems that the LDG board will not fit because it bumps into the KC-2 boards. Can anybody shed any light on "who was that masked man" , did his Sierra have a KC-2, and how did he make it fit? I gots to know...

72,

Jim, WK8G/2  
nestoji@home.com

-----  
Date: Mon, 21 Sep 1998 23:00:38 EDT  
From: BADDBadger@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [20660] Re: Solar contamination  
Message-ID: <c6bcfc0d.360712d6@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

>I'll drink to that! That's Perrier (H2O), right? I call it dihydrogen  
(mon)oxide. Careful! I hear that its pH is almost 7.

>

>

>In a message dated 9/21/98 10:31:22 PM, KenNFD@ibm.net writes:

>It's also a major component of acid rain, contact with it gaseous state  
>can cause burns, inhalation of it can be fatal, and it's been found in the  
tumors of >laboratory animals. Be careful!

>73, Ken K1XS

See! See! And it's all around us! Another threat and attack on my security and  
core values: Ms and Mr Rodham, E. Bunny, Y2K melting down my PowerMac...  
What's a fearmonger to do?

-----  
Date: Mon, 21 Sep 1998 22:27:50 -0500  
From: n5inz@juno.com (John M Andrews)  
To: qrp-l@Lehigh.EDU  
Subject: [20661] Freebie....  
Message-ID: <19980921.222752.3382.6.N5INZ@juno.com>

Populated SMT board w\ne602A's-toko coils-caps and resistors.

These are SMD '602's. My old eyes just won't cut it- If you ask  
for it- Please use it.

72, John-N5INZ

-----  
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Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Mon, 21 Sep 1998 22:26:15 -0500  
From: Lee Bahr <bahr521@earthlink.net>  
To: kd1jv@moose.ncia.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [20662] Re: How do you cut copper clad PC board?  
Message-ID: <360718D7.13D3886C@earthlink.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I use an electric miter box. It cuts fast with perfect accurate square cuts

Steven Weber wrote:

```
> >What is a good way to cut copper clad PC board (to use
> >in making an enclosure for an attenuator)?
> >
> Sawing is too messy for me. Makes too much fiberglass dust.
>
> Tin snips for short pieces, score and snap for bigger cuts.
>
> I use a 12" metal "T" square for a straight edge and utility knife to
> score the board, score on both sides, then snap by placing the cut along
> the edge of the bench. Knife blade also dulls quickly, only good for a
> couple of cuts. I usually snap the tip of the blade off when it gets dull,
> can do this a couple of times before it gets too short.
>
> Be carefull when drilling large holes (bigger than 1/8") in pcb stock. If
> the board is not secured, the drill will grab the board and spin it. I have
> scares to prove what happends when your not carefull :-(
>
> 72,
> Steve, KD1JV....In the White Mountains of New Hampshire
>
> "Melt Solder"
```

-----

Date: Mon, 21 Sep 1998 21:29:00 -0600  
From: Jess Gypin <jessqrp@concentric.net>  
To: mgipe@reliablemeters.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [20663] Re: Radio Shack DX394 closeout  
Message-ID: <3607197C.467A5B9E@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gee,

Thanks for the report! I never did get anyone to answer!

Michael A. Gipe wrote:

> Update:  
>  
> I took the receiver home on Friday, and played around the SW broadcast  
> bands with the built in 2 ft antenna. Works nicely. After setting  
> the clock with WWV at 10MHz, I tuned up to 30 meters and promptly  
> heard N0TFI calling CQ -- on the 2 ft collapsible whip! I reached for  
> the paddles and remembered, no transmitter. Oh well.  
>  
> So Jess, you were 529 on a 2 ft antenna, 100% copy.  
>  
> Mike K1MG

--

Jess N0TFI <><

<http://www.concentric.net/~jessqrp> Personal Home page

<http://qsl.net/n0tfi/bug.html> Bug Stories

-----  
Date: Mon, 21 Sep 1998 23:43:30 -0400 (EDT)  
From: James Skalski <jskalski@buffnet.net>  
To: qrp-1@Lehigh.EDU  
Subject: [20664] Teflon wire for sale / trade  
Message-ID: <Pine.LNX.4.03.9809212320170.753-1000000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Due to requests for information I am repeating the offer of teflon insulated hook up wire . Please note \*\*\*new email address\*\*\*.

Silver plated stranded 22AWG teflon insulated hookup wire in 50 foot rolls, 10 rolls to a pack (500' total). Up to ten different colors. shipped priority mail in the US for \$20.

1000' rolls of one color each roll for \$22 plus UPS charges.  
1000' rolls in 22,24 and 26 AWG. (you save since the labor is reduce)

Will take the following in trade:



Ham related stuff

ethernet related stuff...(I need/don't have!)

I need RJ-45 connectors for round cable,

RJ-45 Crimper,

category 5 cable,

category 5 flush mount wall plates/with jacks

and 100 Mbps 100BASE-TX pci cards with autosense network RJ-45

Monica's phone number... :-)

Tell me what you have.

73,

Jim N2G0

-----  
Date: Tue, 22 Sep 1998 03:57:28 -0400

From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>

To: qrp-1@lehigh.edu

Subject: [20665] VHF Noise Bridges

Message-ID: <3.0.16.19980922031907.089fc6e0@som-uky.campus.mci.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Someone asked a question a couple days ago about using a noise bridge in the VHF range. Well, Palomar claims that their bridge design is good to 100 Mhz or so, but I suspect it's a little less than that. Assuming that transformer symmetry and physical layout is decent, and inductance introduced by the variable resistor is negligible, you should get usable antenna measurements at 6 meters. But I wouldn't trust it to measure electrical lengths of feedlines at 2m.

The Heathkit 1422/a, and most others I've seen are good up to 30 Mhz.

Had a lot of positive feedback regarding a possible

writeup on noise bridges. I'm by no means an expert,  
but I've piddled around with these things a lot since  
I became afflicted with QRP, and could tell some  
stories about these little gems, how they work (  
and sometimes did not work), how to use them  
to improve your antenna system.

Warning - I can go on and on about seemingly trivial things.

tu de Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>  
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

-----  
Date: Mon, 21 Sep 98 23:05:03 -0500  
From: Chuck Adams <adams@ticnet.com>  
To: jim nestor <nestoji@home.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [20666] Re: LDG inside Sierra?  
Message-ID: <199809220401.AAA58556@nss4.cc.Lehigh.EDU>

Jim et.al.,

Jerry, K5RG (I think I have the call correctly), of Tulsa OK  
(a suburb of Dallas TX by the way :-), had an LDG inside  
the top cover of the Sierra. He did an excellent job and if  
he posts how it did it to the list, be sure and save it for  
future reference.

FYI

--  
Chuck Adams K5FO adams@ticnet.com CP-60  
<http://www.ticnet.com/k5fo>

-----  
Date: Tue, 22 Sep 1998 00:10:29 -0400  
From: VE3JC - John C <jbcumming@wwdc.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [20667] QRP Afield - Bicycle rover  
Message-ID: <36072335.30FB8DFD@wwdc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit  
Content-Transfer-Encoding: 8bit

Well I had to take my wife to the airport for an 1830Z departure, so I knew my qrp afield operation would be limited. But as soon as I got home, I hopped on the bike to head out "roving" mobile. Came back home later to fix supper for the kids, then back out on the bike for the last part of the contest.

I managed 18 contacts in 3 1/2 hours on the bicycle - 8 on 20m and 10 on 40 m. Was really surprised I couldn't work anybody on 15. Stations worked were: W0AV, WB0WQS, AF5Z, W0CQC, W0UFO, AF7Y, VE3QDR, AB8DF, N2CQ, KG2H, W1FMR, N8EAG, N9MDK, KI0AF, K8CV, VE3ELA, K1LGQ, AB0GO. [I was using the usual QRP+ at 5W to the Outbacker antenna]

The weather here in southern Ontario was just fabulous. Mist was rising off the river as I biked home, and the last rays of a beautiful sunset disappeared just when the contest ended, as I rode into our driveway.

Thanks for another great contest.

		VE3JC John Cumming
Q		Delaware, ON CANADA
/\		jbcumming@wwdc.com
@` / ----		hf qrp cw bicycle mobile
( ) \ ( )		<a href="http://www.geocities.com/CapeCanaveral/Lab/7378/">http://www.geocities.com/CapeCanaveral/Lab/7378/</a>

-----  
Date: Tue, 22 Sep 1998 00:47:44 EDT  
From: RABRUNER@aol.com  
To: kkanalz@optelinc.com, qrp-1@Lehigh.EDU  
Subject: [20668] Re: Am audio (overmod)  
Message-ID: <c95598cf.36072bf0@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

>Currently, there is NO prohibition to using "Super Modulation"  
>or "negative cycle loading" on the amateur bands. FCC regs DO

>require spectrum bandwidth conservation considerations, however.

Karl,

I should not have been so direct in my statement. It is very difficult after all, to find a QRP tie-in for a discussion that is rooted in high level plate modulation! The distinction between the amateur case and the commercial case during the period referred to in my post would be that there is no explicit language permitting supermodulation and defining it. I know some of those good ole boys on 75 and elsewhere are using converted broadcast equipment including audio processing gear, and can probably develop some asymmetrical modulation.

As a practical matter, many of those old vacuum tube boat anchor transmitters were not very good at supermodulation. They were not designed for it and did not have the reserve of power supply and modulator iron to develop much extra modulation without distortion, and when driven to it spread popcorn all over the place. A lot of amateur AM rigs with which I am familiar just don't have the gas to make much over 100% modulation either.

When you develop asymmetrical modulation by clipping negative audio peaks before feeding them into the transmitter, several problems occur which might put you at odds with the Rules in any case. One is that the negative peak clipping is itself audio distortion and hence likely to produce some splatter. Second, it takes a very good audio amplifier of any type to pass through a hard clipped waveform without tilt or overshoot -- let alone something as crude as an all transformer coupled modulator, and that tilt and overshoot may be enough to allow negative peaks to overmodulate anyway and cause some very wide splatter. Lastly, as you observe, the asymmetrical modulation process itself causes some splatter which may be at odds with at least the spirit of the regulations concerning purity of emissions. It's only necessary to use a general coverage receiver with the AGC off (we want to be fair, after all) and tune around either side of some of the really loud AM stations in your area to hear to kind of sins supermodulation can commit in the name of "getting out."

73

Bob Bruner

WB4TAJ/9

Chicago

-----  
Date: Mon, 21 Sep 1998 21:54:14 -0700  
From: Gray Marshall <gray@gmfx.com>  
To: qrp-1@Lehigh.EDU  
Subject: [20669] QRPp Article on SLX Needed  
Message-ID: <36072D75.4BA4@gmfx.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Anybody on Westside Los Angeles have the Latest Issue of QRPP with The St. Louis Express article in it, so I can copy it?? I will come to you to make it easy!

Or maybe some kind soul can fax it or copy & snail-mail it?

Please e-mail me & let me know. I will reimburse all costs!

Thanks & 72,  
Gray Marshall, KQ6MW

-----  
Date: Tue, 22 Sep 1998 01:08:23 EDT  
From: RABRUNER@aol.com  
To: marsgal42@Hotmail.com, qrp-1@Lehigh.EDU  
Subject: [20670] Re: Bandwidth (was: re: AM Audio)  
Message-ID: <56d1ded4.360730c7@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 9/21/98 3:10:09 PM Central Daylight Time, marsgal42@hotmail.com writes:

> Some of the discussion has mentioned minimizing bandwidth  
> as a motivation for SSB - but is this really the goal?  
> Or is it, rather, having the most communication possible  
> in a given chunk of spectrum?

I think the bandwidth issue is a component of the improved communication efficiency. Initially SSB was touted as a way of maximizing transmitter efficiency. An AM transmitter increases its power output to 150% of the no modulation condition at 100% modulation. The extra 50% is the only part of the signal that contains any useful intelligence and it is made of up two signals which are redundant, so you can throw one of those away, leaving you with a signal that uses only 1/6 as much power as the original 100% modulated signal. Quite an increase in efficiency. Pretty nice to have a 100 watt transmitter with the talk power of a 600W machine. (Or -- QRP content -- a 10w transmitter with the talk power of a 60W.)

Deleting the redundant sideband brings with it the bonus of reducing the occupied bandwidth by 50% which carries a further benefit of allowing the receiver bandwidth to be closed down so that the noise power gathered in with the desired signal is reduced to 1/4 the AM case, providing a further

improvement in s/n at the receiver. Assigning decibel values to these improvements was a common and enjoyable sport in the 50s and 60s.

So as I recall it, reducing the bandwidth was not the primary objective of the drive to SSB, but it was a useful benefit in several areas.

73

Bob Bruner

WB4TAJ/9

Chicago

-----  
Date: Tue, 22 Sep 1998 01:33:19 EDT  
From: RABRUNER@aol.com  
To: w.kimura@valley.net, qrp-1@Lehigh.EDU  
Subject: [20671] Re: suppressed carrier FM  
Message-ID: <604dae5a.3607369f@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 9/21/98 6:11:25 AM Central Daylight Time,  
w.kimura@valley.net writes:

> Therefore, could one say that SSB conserves power where a single sided  
> suppressed  
> deviation FM signal would conserve spectrum?  
>

I suppose that would be reasonable, though SSB conserves spectrum as well since the single sideband is only half as wide as the AM or DBSC signal. Single sided FM has been used, but as I recall the opinion was that the complexity of generating it did not produce any useful improvement in spectrum conservation that could not be obtained by simply reducing the overall deviation until the bandwidth was the same as the single sided case.

73

Bob Bruner

WB4TAJ/9

Chicago

-----  
Date: Mon, 21 Sep 1998 23:23:17 -0700  
From: "Bill Todd" <bill@willapabay.org>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Cc: <nwq-1@scn.org>  
Subject: [20672] Not QRP: 30 pin RAM needed  
Message-ID: <001101bde5f1\$7ddf30e0\$2e5233d1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello folks -

I found four empty 30 pin RAM slots in my computer, and I thought it was about time I will them up.

I am looking for 2 or more 30 pin RAM memory chips - with a minimum of 60 nanoseconds speed. Anyone on the list have some spare memory they want to part with?

Yes, I know where to locate brand new chips (duhhhh...). ha ha

CUL, Bill-N7MFB  
<http://www.willapabay.org/~bill>  
ICQ me @ 8926298  
IPhone = "N7MFB"

-----  
Date: Tue, 22 Sep 1998 01:13:53 -0700  
From: "Bill Todd" <bill@willapabay.org>  
To: <nwq-1@scn.org>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [20673] Re: Not QRP: 30 pin RAM needed  
Message-ID: <000801bde600\$f185ace0\$244ffbce@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

In my first message I wrote:  
"I thought it was about time I will them up."

Also, besides using my powerful "will" to fill up my RAM slots....I also thought I would like to try using MONEY to buy some (it's late folks...). So, if anyone has some 30 pin RAM memory that they would like to sell, just

zap the ol' reply button.

Bill

<http://www.willapabay.org/~bill>

ICQ me @ 8926298

IPhone = "N7MFB"

-----  
Date: Tue, 22 Sep 1998 06:56:21 -0400  
From: Peter\_Simpson@ne.3com.com  
To: qrp-1@Lehigh.EDU, boatanchors@theporch.com  
Subject: [20674] Trivia: History of Quartz Crystals  
Message-ID: <85256687.003B7D92.00@usboxmta.ne.3com.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Every time one of y'all digs through the junk box and pulls out a Valpey crystal, I want you to know that I live in the town where Ted Valpey started his business; Holliston, MA.

His former home is right next door, and his grandson dug the foundation for my house. I can look out my window and see his old steel antenna tower. Yup, he was a ham!

72,  
Peter, KA1AXY

-----  
Date: Tue, 22 Sep 1998 07:23:33 -0400  
From: mikemo@ibm.net  
To: qrp <qrp-1@lehigh.edu>  
Subject: [20675] Help with HT choice  
Message-ID: <360788B5.2260@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit



Content-Transfer-Encoding: 7bit

I'd like to ask my friends on qrp-l their opinion on some dual band HT's. I'm in the market to buy one, and I have read the QST reviews, but would like some "real world" opinions. Here is what I'm looking at:

ADI AT-600HP

Icom IC-W32A

Kenwood TH-G71A

Alinco DJ-G5TH

I'm looking for users impressions, ease of use, battery life, receiver performance, ability to cross band repeat, full duplex, ability to have both receivers on the same band and any other useful feature you think you need.

Please reply direct to me at <mailto:mikemo@ibm.net>

I will compile the answers and post the results (keep the list traffic down).

Thanks and 72, de ku4qo, Mike Maiorana, Palm Harbor, FL

-----  
Date: Tue, 22 Sep 1998 07:34:27 -0400 (EDT)  
From: Chris Cartwright <[ccart@dns.vidtel.com](mailto:ccart@dns.vidtel.com)>  
To: QRP Reflector <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [20676] DK3 UPDATE 22-SEP-98  
Message-ID: <Pine.LNX.3.93.9809222065904.1424A-100000@dns>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Over the past week I've received three letters from Don W6AAQ. It's a good news bad news sort of thing. His health is still a little shakey, the doctors will only let him on his feet two hours a day. The good news is I have four of the latest DK3's sitting on my living room floor and a letter that says he expects six more to ship this week. Bad news, I'm leaving for Florida for three days in less than 24 hours. I'll ship these this weekend or Monday of next week.

In an earlier letter Don stated that we/I could "go commercial" with the antennas as long as he and Esparto got credit for dreaming the idea up. So with the permission of the group I intend to hang on to one of these four and start looking into getting enough parts made to cover the orders. (if 6 more ship I'll still need about ten to cover checks I have, and another 30 folks that want them) I'm not sure if I can get a vo-tech or high school to provide "free" labor, but I'll look into it. I'd like to talk to someone out there with machinists back ground to ask a few

things. You don't have to make them, just answer some "howd dey do dat" type questions. A "local" (DC/MD/VA/PA/DE) would be best because then I can drive over and show it to you.

So N5DUQ, N6MM & N10DL are due to ship when I get back this weekend. And W4FPJ, N4EO, K8EAA, WB2DHK, W1ME & W6JDB consider yourselves "on deck". I'll be "off the list" after tonight so if you want to get a hold of me after taht leave a message at 301-990-0735, or try 40M in the evenings:)

Once again thanks to all for all your patience, 72

```
-- Chris Cartwright,   Technical Engineer   |       ccart@vidtel.com       --  
-- N3XRV      ARRL-VE   Norcal Zombie #163   |   Gaithersburg, MD FM19je   --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
```

-----  
Date: Tue, 22 Sep 1998 13:34:46 +0200  
From: Gerald\_Moritz@pskdd.psk.co.at  
To: QRP-L@Lehigh.EDU  
Subject: [20677] Hello  
Message-ID: <C1256687.003F8F80.00@PSKDD.PSK.CO.AT>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hello World  
de Gerald, OE1GOD  
Vienna, Austria

-----  
Date: Tue, 22 Sep 1998 08:03:26 -0400  
From: "david r" <elbc@pivot.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [20678] for trade  
Message-ID: <002a01bde621\$026ab9e0\$fa1199d0@elbc>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Good Morning all,

I have a microlog avr-2 akb1 and sanyo monitor that is excess to my needs.. the avr2 work in good shape.. the akb1 is not working at the moment. Picked these up in a trade at hamfest.. would consider trading the whole thing for most any qrp related items.. or good cw hand key.. Avr 2 copies cw, rtty to 100 baud and ascII  
thanks  
73 dave KC1DI

-----  
Date: Tue, 22 Sep 1998 07:21:37 -0400  
From: "Armin Hachmer" <armin@muskoka.com>  
To: <adams@ticnet.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [20679] Re: LDG inside Sierra?  
Message-ID: <199809221219.IAA22964@gold.muskoka.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Wow. somebody ought to tell LDG AND Wilderness (Sierra) Maybe they can get together on marketing the superkit.  
Armin Hachmer VE3TEQ  
RR1, MacTier, Ontario, Canada, P0C 1H0  
705-375-1600 armin@muskoka.com  
' life is a contact sport '

-----  
> From: Chuck Adams <adams@ticnet.com>  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Subject: Re: LDG inside Sierra?  
> Date: Tuesday, September 22, 1998 00:05  
>  
>  
> Jim et.al.,  
>  
> Jerry, K5RG (I think I have the call correctly), of Tulsa OK

> (a suburb of Dallas TX by the way :-), had an LDG inside  
> the top cover of the Sierra. He did an excellent job and if  
> he posts how it did it to the list, be sure and save it for  
> future reference.

>

> FYI

>

>

> --

> Chuck Adams K5FO adams@ticnet.com CP-60

> <http://www.ticnet.com/k5fo>

>

>

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Date: Tue, 22 Sep 1998 12:29:35 GMT

From: nhoop@centuryinter.net (N H)

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [20680] Re: Solar contamination

Message-ID: <3608970b.4007144@mail.ot.centuryinter.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

> I'm throwing my solar panel in the garbage

>right now before I am radiated any more.

>Why didn't Mike Bryce tell me about this danger when I bought the Micro M

>controller from him??

GOOD FOR YOU! but if you have been irradiated long you need to take it  
easy. In the spirit of "Anything For Another Ham" I offer to dispose of  
these terrible menaces for you. I'll take care of EVERYTHING.

Trust me.

72 Nat KM5QU

Oxford AR

-----

Date: Tue, 22 Sep 1998 08:51:09 -0500  
From: "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [20681] QRP Web page change for KJ5VW  
Message-ID: <3607AA95.7C9@uts.cc.utexas.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hey gang,

Sorry for the bandwidth, but my QRP web page account was cancelled due to a data entry error on my social security number and I couldn't get the old account name back. So if you have a link to the KJ5VW QRP web page please change the link to:

<http://uts.cc.utexas.edu/~hansongr/>

Sorry to bother every one on the list with this, but I had no way of knowing how many people linked to it. It was on one of the early NorCal web pages and probably spread from there.

Gary, KJ5VW

-----  
Date: Tue, 22 Sep 1998 09:47:01 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@lehigh.edu, nwq-1@scn.org, Bensondj@aol.com  
Subject: [20682] QPRTTF-PAC NW TEAM  
Message-ID: <6b4e7f9.3607aa55@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=ISO-8859-1  
Content-transfer-encoding: quoted-printable  
Content-Transfer-Encoding: quoted-printable

STATION CALL: KB7MBI  
LOCATION: Marymoor Park in Redmond, WA  
OPERATORS: Bob (W7CD) and Alan (KB7MBI)  
EQUIPMENT: KNWD TS-50 /Butternut Vertical and EMTECH NW40/Inverted Vee  
HOURS OPERATIONS: 1800-2400 UTC  
SCORE: 10,368 total points  
-----

GENERAL COMMENTS: Bob proved to be the workhorse and with his rig worked a=

11

bands but focused on 20M. I stayed with 40M on the EMTECH NW40. It was a bit cool but otherwise proved to be a super Pacific Northwest day. Several folks wondering thru the park stopped by to check out what was going on. The forest of masts and wires was rather unusual in this placid park area. I am not sure about the rest of you folks but 40M was dead up until about the last hour, then it was not that great. We worked for every contact on 40M. I was very pleasantly surprised with the performance of Bob=92s KNWD TS-50. It is one outstanding rig.

LESSONS LEARNED: Initially we were set up with the Butternut on 20/15 and PHASED SLVs on 40M. Ther interaction was unbelievable. Each radio totally blanked out the other rig during transmit. In an attempt to resolve the problem we tried an inverted vee doublet with the apex atop one of the SLVs (a VERSA-TENNA). To our surprise this resolved the problem. Although only about 20 yards apart, they proved to be compataible for the multiband operation. The ground mounted Butternut was a real winner for both transmit and receive.

CONCLUSIONS: This proved to be one heck of a lot of fun. We kept it low keyed (no pun here) and broke from operations to chat with the curious onlookers that wandered in. We intend to see if there are some antenna improvements that can be made but we intend to keep one point in focus. What ever we decide upon it must be easy to set up and put away. It was nice to have the station capable of being all packed up and we were on our way in 30 minutes.

-----  
=09CALL=09RPRT=09SPC=09PWR=09SPC=09BAND=09=09  
1810=09WD7Y=0933N=09NV=094W=09NV=0940M=09=09  
2015=09K7FFF=095NN=090R=09100W=090R=0940M=09=09  
2030=09WD7MMG=095NN=09ID=093W=09ID=0940M=09=09  
2137=09AB7TT=09579=09AZ=095W=09AZ=0940M=09=09JOE  
2200=09VE7AIJ=0957N=09BC=09100WBC=0940M=09=09  
2210=09W6IEU=095NN=090R=093W=09USA=0940M=09=09  
2222=09K7UK=095NN=09WA=09100WWA=0940M=09=09  
2300=09N7MFB=095NN=09WA=095W=09=0940M=09=09BILL  
2305=09VE6EWM=0955N=09AB=093W=09AB=0940M=09=09  
2310=09WB7GW=0957N=090R=093W=09=0940M=09=09  
2320=09WE6W=09339=09CA=095W=09CA=0940M=09=09  
2340=09N6MM=0955N=09CA=093W=09=0940M=09=09  
1812=09W0CQC=0955N=09C0=095W=09C0=0920M=09=09

1827=09N2CQ=0956N=09NJ=092W=09NJ=0920M=09=09  
 1830=09AC6KW=09559=09CA=095W=09CA=0920M  
 1835=09W0UFO=0954N=09MN=092W=09MN=0920M  
 1838=09N0IBT=0955N=09C0=095W=09USA=0920M  
 1853=09KI0AF=0955N=09IA=092W=09IA=0920M  
 1856=09KI0G=0955N=09C0=09277=09=0920M  
 1918=09N0HJ/7=0956N=09WY=094W=09WY=0920M  
 1919=09K8CV=0955N=09MI=095W=09MI=0920M  
 1920=09K7GT/P=0955N=09CA=095W=09=0920M  
 1921=09KN6YD/M=09559=09CA=095W=0920M  
 1925=09AA0B=0921N=09M0=095W=09M0=0920M  
 1932=09W0LK=0955N=09AR=095W=09AR=0920M  
 1933=09KG5N=0955N=09C0=092W=09=0920M  
 1935=09AB0G0=0955N=09C0=092W=09=0920M  
 1938=09N6MM=0957N=09CA=093W=09=0920M  
 1945=09KQ6ES=095NN=09CA=09100W=0920M  
 2155=09K0Y0=0957N=09C0=092W=09=0920M  
 2202=09K0EVZ=0958N=09MN=095W=09=0920M  
 2205=09W9UQB=0955N=09AZ=095W=09AZ=0920M  
 2206=09AB7MY=0957N=09AZ=095W=09=0920M  
 2207=09NQ7X=0955N=09AZ=095W=09=0920M  
 2306=09W0AU=0955N=09M0=092W=09=0920M  
 2307=09KI7MN=0955N=09AZ=092W=09=0920M  
 2309=09WA0CML=0955N=09C0=095W=09=0920M  
 2311=09KI0IS=0955N=09C0=09100W=0920M  
 2315=09W5TB=09339=09TX=095W=09TX=0920M  
 2315=09KJ6HZ=0955N=0955N=09CA=09=0920M  
 2336=09W4BX=0955N=09M0=095W=09=0920M  
 2343=09N0DPF=095NN=09SD=0910W=09SD=0920M  
 2347=09KD7BMC=09599=09WA=0910W=09WA=0920M  
 2351=09NU6U=0955N=09CA=095W=09=0920M  
 2353=09K5UP=09559=09OK=095W=09OK=0920M  
 2354=09KG8YT=0955N=09MI=092W=09MI=0920M  
 1949=09N4ROA=0955N=09VA=095W=09VA=0915M  
 1957=09AA1MI=0922N=09NH=091W=09NH=0915M

Calculations:

(48) portable contacts x 4 points per contact =3D 192 qso points

192 x 2 for 5 watt power multiplier =3D 384

384 x (27) states, providences & countries =3D 10, 368 total

-----

Bob (W7CD) and Alan (KB7MBI)

-----  
Date: Tue, 22 Sep 1998 08:39:32 -0700  
From: Charles Kadesch <chas@digizen.net>  
To: qrp-1@Lehigh.EDU  
Subject: [20683] Re: R-X Noise Bridges  
Message-ID: <3607C4B4.5E7A@digizen.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The R-X Noise Bridge truly is a very useful piece of test equipment for radio amateurs. I would recommend the following two articles for some good info on their application, accuracy, improvements, and alternative designs:

- Improving and using R-X Noise Bridges (KI6WX) August 89 QST
- The Hybrid Junction Admittance Bridge (Caron) ARRL Ant. Compendium V3

72 de Chas W3KC

-----  
Date: Tue, 22 Sep 1998 07:09:33 -0700  
From: David Shalita <af389@lafn.org>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>  
Cc: "Ham-Homebrew@ucsd.edu" <Ham-Homebrew@ucsd.edu>  
Subject: [20684] Are U310 and J310 FETS the same part?  
Message-ID: <3607AF9D.DA9904F1@lafn.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Frequently, I see J310 FET used in Ham RF circuit designs. Some use J310 and less frequently I see U310.

I only have U310's in my parts cabinet. My Motorola datasheet only covers U310 FET.

A pointer to source for data sheets on Internet for each would be helpful.

Thanks for clarification and pointers.  
73, W6MIK

--



David Shalita (Dave)  
af389@lafn.org  
Van Nuys, CA

-----  
Date: Tue, 22 Sep 98 11:00:08 EDT  
From: jeverhar@cse.1-3com.com  
To: af389@lafn.org  
Cc: qrp-1@lehigh.edu  
Subject: [20685] Re: Are U310 and J310 FETS the same part?  
Message-ID: <9809221500.AA19044@train11.cse.1-3com.com>

Dave,

Try the Siliconix (Temic, Daemler-Benz) MoSFET search page at:

<http://www/temic.com/www/product/LPMOSCH.HTM>

This will allow you to download an Adobe Acrobat (tm) file with the data sheets.

72/73,

Joe E., N2CX

> I only have U310's in my parts cabinet. My Motorola datasheet  
> only covers U310 FET.  
>  
> A pointer to source for data sheets on Internet  
> for each would be helpful.  
>  
> Thanks for clarification and pointers.  
> 73, W6MIK  
>

-----  
Date: Tue, 22 Sep 1998 9:32 -0600  
From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>  
To: "BADDBadger" <BADDBadger@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [20686] RE: Solar contamination  
Message-ID: <9710A145@optelinc.com>

The "Bad Badger" wrote:

In a message dated 9/21/98 9:34:31 PM, wb5rue@stic.net writes:

>You can also use Hydrogen Hydroxide (HOH)  
>  
>Be careful with it!  
>  
>Kevin, WB5RUE

I'll drink to that! That's Perrier (H<sub>2</sub>O), right? I call it dihydrogen  
(mon)oxide. Careful! I hear that its pH is almost 7.  
<snip>

I hear the latest "snob drink" in Oklahoma City is:

Perrier and water

KK

-----  
Date: Tue, 22 Sep 98 10:34:56 -0600  
From: Chris Cole <cjcole@ames.net>  
To: "QRP-L List" <qrp-l@Lehigh.EDU>  
Subject: [20687] New 440 Repeater on the Air in Iowa!  
Message-ID: <199809221545.KAA19631@brain.ames.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Hello!

Just thought you might like to know that there is a new repeater in Iowa.  
444.575+ with a PL of 151.4 call: wb0obu (I think). It is located on the  
CBS broadcasting tower. 1000ft on the receive ant. (I think I always get  
them mixed up) 500ft on the Trasmiting ant. Well talk to all of you  
later.

72s/73s  
Chris KC0DB0

-----  
Date: Tue, 22 Sep 1998 11:48:13 -0400  
From: jim nestor <nestoji@home.com>

To: qrp-1@lehigh.edu  
Subject: [20688] Sierra and LDG  
Message-ID: <19980922155118.AAA14939@cc652944-a.ewndsr1.nj.home.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

In reponse to my query about an LDG QRP autotuner inside a Sierra, it appears that the "guy what done it" was Jerry, K5RG. Does he frequent this list, or does anybody have an e-mail address for him?

I agree that it probably makes sense to leave the LDG in a separate box (the way I have it now), but who ever said that QRPers had to make sense?

I did take note of the potential for noise from the uner making it's way into the Sierra and would have to work around that problem if I can just figure out how to make it fit in the first place. Tony, W2GUM, suggested a shoe horn....

72,

Jim, WK8G/2  
nestoji@home.com

-----  
Date: Tue, 22 Sep 1998 10:35:34 -0500  
From: n5inz@juno.com (John M Andrews)  
To: qrp-1@lehigh.edu  
Subject: [20689] Re: Freebie....  
Message-ID: <19980922.105450.3590.0.N5INZ@juno.com>

What a surprise....It's gone.

Wish I had a dozen to give out.

72, John- N5INZ

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]  
-----

Date: Tue, 22 Sep 1998 08:50:48 -0700  
From: "Bill Todd" <bill@willapabay.org>  
To: <ryan@e-etc.com>  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [20690] Re: Not QRP: 30 pin RAM needed  
Message-ID: <005f01bde643\$0809cfe0\$264ffbce@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>What are you looking for? 1MB? 4MB? or what?

Hi Ryan-

I should have made my post a bit more specific. I am looking at CDW 30 pin RAM chips that are 16 megs on each chip. My original post stated that I needed a minimum of 60 nanosecond chips.

My hope is that I could find something along this line...or perhaps 4 meg RAM or 8 meg RAM chips - if indeed there are such beasts.

>Do you need parity or >non-parity?

I was not aware of the parity issue, and in fact this is the first time that I have heard of this. My only experience with "parity" is in relation to telecommunication standards for modems.

CUL, Bill-N7MFB  
<http://www.willapabay.org/~bill>  
ICQ me @ 8926298  
IPhone = "N7MFB"

-----  
Date: Tue, 22 Sep 1998 11:34:34 -0700  
From: "DONALD G. DORN" <DDORN@swbell.net>  
To: QRP-L@lehigh.edu  
Subject: [20691] 10 METER QRM  
Message-ID: <3607ED94.A68@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Fellers,

I just completed the receiver part of a home brew 10 Meter xcvr and have been listening around the band. Have heard several DX stations in Europe and South America in the last couple of days.

I also hear a few AM carriers and around 28.06 sometimes I can hear what I think is SSB with a beep at the end of each transmission. What the dickens is that. The audio on all these sigs is down in the mud and garbled, especially after going thru my 350 Hz xtal IF filter so I can't really tell much about it. I think it is in Spanish but am not sure.

My IF is at 4.9MHz so the image is around 18 MHz if that means anything to anybody. I did not put extensive filtering in the front end, thinking that I wouldn't need it. Guess I was wrong. This is unfamiliar territory for me having never even listened on 10M before. Can somebody enlighten me?

73/72 Don K5AAR Oklahoma

-----  
Date: Tue, 22 Sep 1998 10:55:53 -0600  
From: bcutter@teal.csn.net (Bob Cutter)  
To: qrp-1@lehigh.edu  
Subject: [20692] Where do it go?  
Message-ID: <199809221655.KAA03957@mailrelay.sni.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

What happens to the "excess" electrical energy that is generated and placed into the grid/distribution system that is not converted into another form of energy. Is there a giant dummy load that converts it to heat, is it stored, what?

72, Bob KI0G

-----  
Date: Tue, 22 Sep 1998 10:59:40 -0600  
From: "Steve Hurst" <shurst@magiclink.com>  
To: <DDORN@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [20693] Re: 10 METER QRM  
Message-ID: <199809221657.MAA113482@nss4.cc.Lehigh.EDU>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Don,

What you are hearing is probably "CB'er" using the cheap rigs that they are making now. The "BEEP" you are hearing is called a "Roger Beep" , ( named after its inventor Roger Dodger ) , this gives the CB'ers the feeling they are communicating with astronauts in outerspace ! And , HEY , maybe they are !!!!!

73,  
Steve Hurst  
KA7NOC ( southern Idaho )  
<http://www.magiclink.com/web/shurst>  
[shurst@magiclink.com](mailto:shurst@magiclink.com)

" I'm cooler than you are. Why don't you fix your little problem and light this candle ?"  
Alan B. Shepard

-----  
> From: DONALD G. DORN <DDORN@swbell.net>  
>  
-----El Snipo-----

> I also hear a few AM carriers and around 28.06 sometimes I can hear what  
> I think is SSB with a beep at the end of each transmission. What the  
> dickens is that. The audio on all these sigs is down in the mud and  
> garbled, especially after going thru my 350 Hz xtal IF filter so I can't  
> really tell much about it. I think it is in Spanish but am not sure.  
>  
-----El Snipo againo-----  
> 73/72 Don K5AAR Oklahoma  
>

-----  
Date: Tue, 22 Sep 1998 13:22:29 -0500  
From: "Kevin Muenzler WB5RUE" <[wb5rue@stic.net](mailto:wb5rue@stic.net)>  
To: <[bcutter@teal.csn.net](mailto:bcutter@teal.csn.net)>  
Cc: "'Low Power Amateur Radio Discussion'" <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [20694] RE: Where do it go?  
Message-ID: <19980922182231167.AAA235@muenzlerk>

There is lots of energy lost as heat in the resistance  
of the wire, bad splices, transformer heat, etc. There

really is no "excess energy." It's like having a 50 amp power supply and only drawing 10 amps from it. The electricity generated is on a capacity basis. For instance one of the generators at our main plant has a load capacity of 35 mega-watts. It doesn't produce 35 mega-watts all the time but that's the capacity of that particular generator.

Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU  
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Bob Cutter  
> Sent: Tuesday, September 22, 1998 11:56 AM  
> To: Low Power Amateur Radio Discussion  
> Subject: Where do it go?  
>  
>  
> What happens to the "excess" electrical energy that is  
> generated and placed  
> into the grid/distribution system that is not converted into  
> another form of  
> energy. Is there a giant dummy load that converts it to  
> heat, is it stored,  
> what?  
>  
> 72, Bob KI0G  
>  
>

-----  
Date: Tue, 22 Sep 1998 14:26:20 EDT  
From: we6w@juno.com (Ed Loranger)  
To: qrp-1@lehigh.edu  
Subject: [20695] AEROGEL and Insulating Foam  
Message-ID: <19980922.112025.8015.0.we6w@juno.com>

Fellow Homebrew and QRP fanatics:

Does anyone know how to make 'AEROGEL' at home? Discovered in the 1930's this stuff is 98% air and might have uses for us in ham

radio. But I've seen relatively little information on it except that I have a long memory. It supports many times its own weight. Interesting.

Also, was in HomeBase (hardware store...) and found a can of Spray Foam used to seal around doorframes etc. Neat stuff. What caught my attention was a big blob someone had formed with it. It stuck relatively well to the painted metal display rack and was very stiff but slightly spongy.

Anyone have a HAM use for this product.  
(Sorry I don't have the name.)

So: Aerogel formula and Use of Spray insulation foam.

Any help.

(Am home again today...) Darn Flu.  
-Ed <mailto:we6w@juno.com> please.

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>  
Enjoying Ham Radio every day! Santa Rosa, CA.

---

You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

---

Date: Tue, 22 Sep 1998 13:40 -0600  
From: "Karl Kanalz - Dallas" <[kkanalz@optelinc.com](mailto:kkanalz@optelinc.com)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>, "Ed Loranger" <[we6w@juno.com](mailto:we6w@juno.com)>  
Subject: [20696] RE: AEROGEL and Insulating Foam  
Message-ID: <[BBA02814@optelinc.com](mailto:BBA02814@optelinc.com)>

Sorry to hear about your continued flu attach,  
Ed! That's gotta' be debilitating to say the least!

As for uses of that canned foam you found:

I've used it to provide a thermal barrier/isolation around the air variable(s) used in VFO circuits.  
I just make a little cardboard box to just fit over



the VFO's variable capacitor (with the plates all the way open), and then a little cardboard "dam" to keep the foam off \*most\* of the rest of the board and then fill the space with foam, placing a generous "glob" over the TOP of the capacitor box. When it has hardened, I take a long-bladed (very sharp!) knife and slice horizontally through the "glob" to flatten it out and make it a bit more attractive... sort of "square it up".

If you spray the cardboard "dam" with PAM (cooking spray) or other "greasy" coating, you can remove the "dam" from the outside of the foam encapsulation to make the whole thing look like a little square igloo.

Cuts drift (due to thermal expansion of the metal plates) to nearly z-e-r-o !!

Karl K. - W8TIF  
McKinney, Texas

<snip>  
From: Ed Loranger  
Subject: AEROGEL and Insulating Foam  
Date: Tuesday, September 22, 1998 2:26PM

Fellow Homebrew and QRP fanatics:

Also, was in HomeBase (hardware store...) and found a can of Spray Foam used to seal around doorframes etc. Neat stuff.

Anyone have a HAM use for this product.

(Am home again today...) Darn Flu.  
-Ed <mailto:we6w@juno.com> please.  
<snip>

-----  
Date: Tue, 22 Sep 1998 13:41:36 -0700  
From: "DONALD G. DORN" <DDORN@swbell.net>  
To: QRP-L@Lehigh.EDU  
Subject: [20697] RE10 :METER QRM  
Message-ID: <36080B80.3D3@swbell.net>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Thanks to all who responded to my query about the qrm on 10 meters. I had not even thought about the illegal CB traffic. Guess my receiver is OK after all. I have the transmitter finished now so I'll just overpower them with my 2 1/2 watts. Ha!

73 Don K5AAR in Oklahoma

-----  
Date: Tue, 22 Sep 1998 13:48:29 -0500  
From: Mike Manship <mjmanship@iquest.net>  
To: qrp-l@lehigh.edu  
Subject: [20698] Re: AEROGEL and Insulating Foam  
Message-ID: <3.0.2.32.19980922134829.0069f134@pop.iquest.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I overheard a conversation on 40 meters one day and a guy was telling how he made a cubical quad antenna. He said that he used PVC tubing for the spreaders.

Normally, the spreaders are too floppy to use by themselves but he said that he filled them with the canned insulation foam and when the foam hardened the tubing was rigid enough to use as he originally intended.

At least that was HIS story. I haven't tried it myself.

73 de Mike W90J

>Also, was in HomeBase (hardware store...) and found  
>a can of Spray Foam used to seal around doorframes  
>etc. Neat stuff. What caught my attention was  
>a big blob someone had formed with it. It stuck  
>relatively well to the painted metal display rack  
>and was very stiff but slightly spongy.

>  
>Anyone have a HAM use for this product.  
>(Sorry I don't have the name.)

>  
>So: Use of Spray insulation foam.

>  
>Any help.

>

>(Am home again today...) Darn Flu.  
>-Ed mailto:we6w@juno.com please.  
>  
>  
>72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>  
>Enjoying Ham Radio every day! Santa Rosa, CA.  
>

-----  
Date: Tue, 22 Sep 1998 12:55:38 -0600  
From: "James R. Duffey" <jr3m@maxwell.com>  
To: af389@lafn.org  
Cc: qrp-1@lehigh.edu  
Subject: [20699] U310 is Metal Cased J310  
Message-ID: <v03007804b22d9e617849@[199.120.49.100]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Dave - You asked;

"Are U310 and J310 the same part?"

The U310 is a J310 in a T0-52 metal can. The case is grounded to the gate.  
The J310 is a T0-92 plastic part like the MPF102.

The U310 and J310 are interchangeable at HF; at VHF (above 50 MHz) the U310 is more stable and is preferred over the J310.

With the case being tied to the gate, the U310 makes an excellent grounded gate low noise preamplifier. Siliconix designed the U310 (and J310) so that the input impedance when operated in a grounded gate configuration was 75 Ohms. This simplified the design of circuits using the J310/U310 in consumer electronics.

The J310 (and U310) has excellent (for a JFET) controlled characteristics and is a good all round choice at HF when a JFET is required. It is preferred to an MPF102.

So go ahead and substitute the U310 for the J310. - Dr. Megacycle KK6MC/5

James R. Duffey      KK6MC/5   DM65tc   <jamesd1@flash.net>  
30 Casa Loma Road  
Cedar Crest NM 87008

-----  
Date: Tue, 22 Sep 1998 15:32:50 EDT  
From: ARDUJENSKI@aol.com  
To: kulcsar@ix.netcom.com, qrp-1@lehigh.edu, nwq-1@scn.org  
Subject: [20700] OLD KEYS  
Message-ID: <9c3e6927.3607fb62@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

For those inquiring minds check out this site for old keys:  
<http://www.chss.montclair.edu/~pererat/telegraph.html>  
Alan KB7MBI

-----  
Date: Tue, 22 Sep 1998 15:57:13 -0400  
From: "Charles R. Mabbott Sr." <crmabbott@mediaone.net>  
To: "QRP-L" <qrp-1@lehigh.edu>, <SABorns@aol.com>  
Subject: [20701] Special event station N8F Nov 7 & 8  
Message-ID: <008901bde663\$3118c6a0\$0d318318@mw.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The Stuart Rockefeller Amateur Radio Club of Plymouth, MI is having a special event station to run the week end (Nov 7, and 8th) that is for the sinking of Edmond Fitzgerald. They will be at the Lighthouse at Whitefish Point, MI.

The frequencies will be;

CW	14044 and 7.044 Mhz
SSB	14.27 and 7.27 Mhz

They will be there both Sat and Sunday of that weekend. I will follow up with another message late next month as a reminder. Thanks for taking the time to let me announce it.

Listen for November 8 Fitzgerald

Chuck  
AA8VS MI-QRP #M1212

This is what I am sending Steve

-----  
Date: Tue, 22 Sep 1998 16:13:22 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@lehigh.edu, nwq-1@scn.org  
Subject: [20702] PORTABLE GENERATOR  
Message-ID: <74792237.360804e2@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

I found this add and have sent an e-mail off for more info:

-----  
Portable Generator Targets Cellular Phones, Stereos  
-----

Nippon Chemi-Con Corp. released July 1 a portable generator intended for use with cellular phones and personal stereos.

Turning a crank handle on the device can power portable devices and recharge nickel-cadmium batteries.

The generator is particularly handy for users of cellular phones, a company official said, as it is the first such unit that can provide power to cellular phones while they are in use.

Price: Open, 6,000 to 7,000 yen (\$43.17-\$50.36).

Nippon Chemi-Con Corp.: 1-167-1 Higashi-ome, Ome, Tokyo Tel.: 0428-22-1251.

Measuring 143.5-by-40-by-27mm, the generator weighs 100g without batteries and cables.

-----  
Alan KB7MBI

-----  
Date: Tue, 22 Sep 1998 15:30:33 -0500  
From: Jerry Henshaw <jerryh@webzone.net>  
To: "'QRP List'" <qrp-l@lehigh.edu>  
Subject: [20703] LDG Inside the Sierra  
Message-ID: <01BDE63D.F1D67840@x2-usr2.ppp169.webzone.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable  
Content-Transfer-Encoding: quoted-printable

Hi Gang,

Chuck Adams almost got my call sign right.... it is KR5L. (You have to =  
lower your expectations for Texans). I built the LDG autotuner inside =  
my Sierra with the KC-2. I have brought the unit to FIDM for the past =  
two years. It is really tight --- but it will fit and YES you can put =  
the top cover on the unit. I mounted the tuner upside down and hinged =  
to the back panel so I could raise it up to change band modules. I made =  
two homebrew pc boards to mount all the control switches and LEDs. These =  
controls and indicators are located just above and below the main tuning =  
knob. You have to make a Faraday shield around the KC-2 or the stray =  
RF during tuning will reset the microprocessor. It has performed =  
flawlessly (more than I can say for myself) for the past two years.

Anyone interested in further details can contact me the following ways:

Jerry Henshaw KR5L  
8016 So. Quebec  
Tulsa, OK 74136

or

(918) 496-3775

or

jerryh@webzone.net

72's

Jerry

-----  
Date: Tue, 22 Sep 1998 13:33:42 -0700  
From: "John Moriarity" <k6qq@hdo.net>  
To: <chas@digizen.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [20704] Re: R-X Noise Bridges  
Message-ID: <003f01bde668\$4aebda40\$ec564dd1@k6qq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>The R-X Noise Bridge truly is a very useful piece of test  
equipment for  
>radio amateurs. I would recommend the following two  
articles for some  
>good info on their application, accuracy, improvements, and  
alternative  
>designs:  
>-Improving and using R-X Noise Bridges (KI6WX) August 89  
QST  
>-The Hybrid Junction Admittance Bridge (Caron) ARRL Ant.  
Compendium V3

Be careful. As I remember, there was an article in QST by  
Caron  
in which he pointed out a fundamental flaw in his Admittance  
Bridge  
(and a way to correct it). I don't have my QSTs unpacked  
yet, so  
I can't tell you what issue.

72,

John, K6QQ

-----  
Date: Tue, 22 Sep 1998 13:34:54 -0700  
From: Jim Lowman <jmlowman@ix.netcom.com>

To: dmeitzen@pov.net, qrp-1@lehigh.edu, qrp@qth.net  
Subject: [20705] Re: Need Help  
Message-ID: <360809EE.42AAF16F@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

H. Dave meitzen wrote:

>  
> I have a Index Labs QRP transceiver. Tried to contact Index Labs in Gig  
> Harbor WA and not listed. Does any one know if they are out of business?  
> If so where can I send my little puppy for repair? Thanks for taking the  
> time  
> Best Regards to the Net

Hi, Dave...

Index Labs is officially out of business. Their chief designer went to SGC, and was heavily involved with the SGC-2020 development.

Not sure if there are any third-party firms that will do repairs. If you find someone, please let me know. I passed on the upgrade from the "+" to the "++" any might want to have that done in the future.

72 de Jim - AD6CW

-----  
Date: Tue, 22 Sep 1998 16:40:51 -0400  
From: "Bill NT1R" <wlegge1@maine.rr.com>  
To: <tentec@contesting.com>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [20706] FS: TT CENTURY 21 DIGITAL \$200  
Message-ID: <199809222038.QAA02541@proxye3-atm.maine.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I have forsale a nice digital Century 21 with builtin power supply. Price is \$200. plus shipping. Thanks for reading. 73 Bill, NT1R

-----



Date: Tue, 22 Sep 1998 16:50:02 -0400  
From: Michael Maiorana <mikemo@ibm.net>  
To: ARDUJENSKI@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [20707] Re: PORTABLE GENERATOR  
Message-ID: <36080D7A.9A3FADF4@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

ARDUJENSKI@aol.com wrote:

> Turning a crank handle on the device can power portable devices and  
> recharge nickel-cadmium batteries.

Can you say "Group Buy"???? This sounds like what we have all been  
looking for.

--

72 de ku4qo  
Mike Maiorana  
Palm Harbor, FL

-----  
Date: Tue, 22 Sep 1998 16:49:20 -0400  
From: "Ron Polityka" <wb3aal@talon.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [20708] Web Page Address  
Message-ID: <001601bde66a\$7c37de80\$3e5445c6@programs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello Everyone,

Does anyone know what happened to or what the new address is for the  
SP (Poland) QRP Club?

Thanks,  
73 & Good DX,  
Ron de WB3AAL       wb3aal@talon.net

vvv Eastern PA QRP Web Page vvv  
[http://www.kpsnet.com/wb3aal/Start\\_Page.htm](http://www.kpsnet.com/wb3aal/Start_Page.htm)  
Eastern PA QRP #1

-----  
Date: Tue, 22 Sep 1998 16:53:09 -0400  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: qrp-1 <qrp-1@lehigh.edu>  
Cc: gqrp <gqrp-1@blacksheep.org>  
Subject: [20709] Lightbulbs and verbosity  
Message-ID: <199809221653\_MC2-5A4F-8609@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline  
Content-Transfer-Encoding: quoted-printable

Question - How many Internet mail list subscribers does it take to  
> change a light bulb?

> =

> Answer - 1,331:

> =

> \*1 to change the light bulb and to post to the mail list that the  
> light bulb has been changed.

> =

> \*14 to share similar experiences of changing light bulbs and how the  
> light bulb could have been changed differently.

> =

> \*7 to caution about the dangers of changing light bulbs.

> =

> \*27 to point out spelling/grammar errors in posts about changing  
> light bulbs.

> =

> \*53 to flame the spell checkers.

> =

> \*156 to write to the list administrator complaining about the light  
> bulb discussion and its inappropriateness to this mail list.

> =

> \*41 to correct spelling in the spelling/grammar flames.

> =

> \*109 to post that this list is not about light bulbs and to please  
> take this email exchange to alt.lite.bulb.  
> =

> \*203 to demand that cross posting to alt.grammar, alt.spelling and  
> alt.punctuation about changing light bulbs be stopped.  
> =

> \*111 to defend the posting to this list saying that we are all users  
> of light bulbs and therefore the posts **\*\*are\*\*** relevant to this  
> mail list.  
> =

> \*306 to debate which method of changing light bulbs is superior,  
> where to buy the best light bulbs, what brand of light bulbs  
> work best for this technique, and what brands are faulty.  
> =

> \*27 to post URLs where one can see examples of different light bulbs.  
> =

> \*14 to post that the URLs were posted incorrectly, and to post  
> corrected URLs.  
> =

> \*3 to post about links they found from the URLs that are relevant to  
> this list which makes light bulbs relevant to this list.  
> =

> \*33 to concatenate all posts to date, then quote them including all  
> headers and footers, and then add "Me Too."  
> =

> \*12 to post to the list that they are unsubscribing because they  
> cannot handle the light bulb controversy.  
> =

> \*19 to quote the "Me Too's" to say, "Me Three."  
> =

> \*4 to suggest that posters request the light bulb FAQ.  
=

>\*1 to propose new alt.change.lite.bulb newsgroup.

>\*47 to say this is just what alt.physic.cold\_fusion was meant for,  
leave it here.

>\*143 votes for alt.lite.bulb.

72 and 73 de Mel  
GM6JAG  
Edinburgh, Scotland UK  
Home of the last HW9

Alternate e-mail address: <melgm6jag@aol.com>

Authorised at 11kv, 33kv, and up to 275kv

Check out < <http://users.aol.com/euramcom/welcome.html> >  
for details of euro-american components equivalents!

Area Chairman, British Caravanner's Club  
Web Pages <<http://users.aol.com/bccscot/page1.html>>

-----  
Date: Tue, 22 Sep 1998 17:06:26 -0400  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: ARDUJENSKI@aol.com, "Qrpl\_Submit (E-mail)" <qrp-l@lehigh.edu>  
Subject: [20710] RE: PORTABLE GENERATOR  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA33B0615@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

Please put any additional info on the list. I would definitely be interested in a group buy if I can charge low cap. cell cells.

> From: ARDUJENSKI@aol.com [SMTP:ARDUJENSKI@aol.com]  
...snip ...  
> I found this add and have sent an e-mail off for more info:  
...snip ...  
> Turning a crank handle on the device can power portable devices and  
> recharge nickel-cadmium batteries.  
... snip ...  
> Price: Open, 6,000 to 7,000 yen (\$43.17-\$50.36).  
...snip ...  
> Measuring 143.5-by-40-by-27mm, the generator weighs 100g without  
> batteries and cables.  
...snip ...

Sam Billingsley AE4GX Atlanta, GA

-----  
Date: Tue, 22 Sep 1998 14:12:33 -0700  
From: "Radman" <radman@best.com>  
To: <jmlowman@ix.netcom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [20711] Index Labs support -- QRP + (++)  
Message-ID: <199809222110.0AA21214@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Jim, Dave et al,

Regarding Index Labs and support of the QRP+ ... I had a conversation with Bruce Franklin, designer of the Index Labs QRP+ , on April 28th of this year. He asked me to pass along to the folks on QRP-L the following support contact for the Index Labs QRP+/++. (I posted this info as soon as I got it from Bruce.)

Please contact: Stan Yarema / K7SY - Seattle, WA. Phone: 206-285-8941, for support/parts, etc. (Sorry, I don't have an email for Stan.) Stan, per Bruce Franklin, has taken over product support of the Index Labs QRP+/++.

Index Labs, with Bruce Franklin at the helm, is still going strong -- however, Bruce is on a new mission outside the realm of amateur radio. I hope to have a conversation with him soon and bring you an update of his latest adventures -- he's still wireless ;)!

GL & 72 - Conrad Weiss - NN6CW

-----  
Date: Tue, 22 Sep 1998 14:37:15 -0700  
From: "Radman" <radman@best.com>  
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [20712] Re: PORTABLE GENERATOR  
Message-ID: <199809222135.0AA00381@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Alan,

Nice find ! Do you look at the size / weight of this thing? :-) 100 grams !!!!!!!?

>>>>Portable Generator Measuring 143.5-by-40-by-27mm, the generator weighs 100g without batteries and cables.

\*\*\*\*\*

That's 5.65" x 1.57" x 1.06" -- with a weight of 3.53 ounces !

The RS / BayGen unit is over 5 pounds in weight, costs \$79 and is roughly the size & shape of a picnic ham ;)

I'm interested ;)!

72 - Conrad Weiss - NN6CW

-----  
Date: Tue, 22 Sep 1998 16:27:56 -0500  
From: heatherex@juno.com (Rex E Pickett)  
To: jessqrp@concentric.net  
Cc: qrp-1@lehigh.edu  
Subject: [20713] Re: Radio Shack DX394 closeout  
Message-ID: <19980922.163955.-958669.0.heatherex@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

There is a review of the RS DX394 on page 77 of October 1997 QST. Purchased one for \$200 in June, original price \$250 so \$160 is a bargain. With just 10' of 22gauge wire I have picked up shortwave stations from the Netherlands, Great Britain, Ecuador from Omaha Nebraska.

It is easy to use and program in frequencies.(I don't like a lot of knobs and buttons on my rigs). Stability is good. Picks up lots of CW signals, at the same time unless the RF gain is turned down. A good little radio with some nice features for the money.

73, Rex KA7NQK

-----

Date: Tue, 22 Sep 1998 16:49:53 -0500  
From: Ryan <ryan@e-etc.com>  
To: Low@nss4.cc.Lehigh.EDU, Power@nss4.cc.Lehigh.EDU, Amateur@nss4.cc.Lehigh.EDU,  
Radio@nss4.cc.Lehigh.EDU, Discussion@nss4.cc.Lehigh.EDU,  
<qrp-1@lehigh.edu>  
Cc: heatherex@juno.com  
Subject: [20714] Re: Radio Shack DX394 closeout  
Message-ID: <36081B81.7340@e-etc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Actually the original \*original\* price was \$299, when it first came out. I just picked one up for \$169 at my RS, it is a good deal. Better hurry if you want one, they told me there are only like 10 left in the country, and I think they are all display models. They had to ship one in for me.

Ryan

Rex E Pickett wrote:

> There is a review of the RS DX394 on page 77 of October 1997 QST.  
> Purchased one for \$200 in June, original price \$250 so \$160 is a  
> bargain.

-----

Date: Tue, 22 Sep 1998 11:53:55 -0600  
From: tom whalen <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [20715] PVC Spreaders  
Message-ID: <3607E432.2E33@swcp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

QRP-Lers!

Enjoyed reading Mike W9OJ's article about the guy that used the foam spray to fill up the pvc tube for his quad.

I have never done as above, but did build a 10/15 meter quad out of 3/4 pvc tubing about 20 years ago. It worked real well, but above 15 meters the tubing got real whimpy. Possibly the foam idea would enable a person to get the 3/4 inch pvc to be rigid enough for a 20m quad.

During cycle 21 built a 4 element 10 meter quad and ran my Argo(5W) and sure got good signal reports! At the time the antenna only cost me about 10 bux to build. Not bad for all that gain....what maybe a dollar per dbd!!

Thanks for sharing that foam idea with us Mike, I for one am going to do some experimenting with it...

72, Tom WB5QYT

-----  
Date: Tue, 22 Sep 1998 18:19:52 EDT  
From: KB90CE@aol.com  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [20716] Re: PORTABLE GENERATOR  
Message-ID: <945d05fb.36082288@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

DYNO-MITE! Count me in too on this one. Sounds great!

73 de Mike

-----  
Date: Tue, 22 Sep 1998 18:28:45 EDT  
From: BADDDBadger@aol.com  
To: qrp-1@lehigh.edu  
Subject: [20717] Re: Radio Shack DX394 closeout  
Message-ID: <9bbe0c9d.3608249d@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

I checked by phone and computer last week and Metro Detroit is out of them except for some demos. I went to my usual RS store in Dearborn and assumed



that the demo there would be practically unused. It was! So I got it. The price was \$170, not \$160 like some posts indicate. The manual was missing, so one will arrive someday. I also bought the service manual, in lieu of the usual insurance pitch the stores made. The book was \$19. The quality of the RS repair manuals is quite good in general. I always get them.

I haven't connected it a good antenna yet, just about 10 feet of power cord. It works FB. The tuning resolution is either 0.1, 1, 5, or 10 KHz. Missing the operator's manual, I haven't figured out all of its features yet, but am getting there.

-----  
Date: Tue, 22 Sep 1998 15:36:25 -0700 (PDT)  
From: KC5TJA <kc5tja@axisinternet.com>  
To: KB9OCE@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [20718] Re: PORTABLE GENERATOR  
Message-ID: <Pine.LNX.3.96.980922153543.27321A-1000000@axisinternet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 22 Sep 1998 KB9OCE@aol.com wrote:

>  
> DYN0-MITE! Count me in too on this one. Sounds great!

If they're as cheap as everyone thinks they are (~\$60), I'll buy one too.

=====  
KC5TJA/6 | -| TEAM DOLPHIN |-  
DM13 | Samuel A. Falvo II  
QRP-L #1447 | <http://www.dolphin.openprojects.net>  
Oceanside, CA | .....

-----  
End of QRP-L Digest 1222  
\*\*\*\*\*